µCAM^{HP} Sensor System

AIM

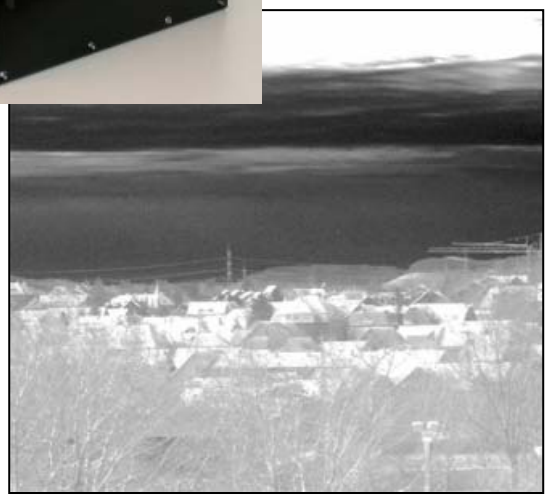
Date Revised: 22 JAN 04

VENDOR DESCRIPTION

The µCAM^{HP} is a highly integrated, fully digital thermal imager. All components are optimized in regard to performance, size and weight.

The key components and performance parameters are:

- Cooled staring CMT array with 384x288 pixels for the 3-5 µm wavelength range with a high thermal resolution of less than 40 mK (NETD) for short 1 ms integration as required for small UAVs with limited stabilization
- Total power consumption below 18W at all specified ambient temperatures
- Analog and digital video output
- Display options: Manual, auto gain/offset with manual correction, histogram mode
- Scene-based nonuniformity correction for good image quality
- Camera control by either RS-232 serial interface or a CAN bus
- Total weight less than 1700 g. Dimensions 220mm x 100mm x 100 mm (L x W x H)
- Wherever light weight or remote operation and control is a key requirement, µCAM^{HP} is the optimum value to cost camera.



µCAM^{HP} IR Sensor System: Observation of Power Transfer Lines in 4000m Distance

Product Manager Robotic & Unmanned Sensors
Telephone: (732) 427-5827 / DSN 987
Fax: (732) 427-5072 / DSN 987
e-mail: SFAE-IEWS-NV-RUS@iews.monmouth.army.mil

Business Category: N/A – Foreign Concern

EOIR

Hardware: Infrared Camera Sensor System	
Interface: RS-232 or CAN bus	Optics: f=38mm, f/2.5, FOV 14° x 11°
Power: < 18 watts	Range Performance: STANAG 4347, TRM3
Weight: 1.7 kg or 3.74 lbs	Bad Weather Condition: 0.2/km
Dimensions: 220mm x 100mm x 100mm	Identification: 500 m
Detector Type: HgCdTe	Detection: 3000 m
Wavelength range: 3.4 - 5.2 µm	MTBF: 4000 hrs
Pixel: 384x288, 24 µm pitch	Environmental Temperature: -40°C to +63°C
Cooling Method: Integral Stirling cooler	
Thermal Resolution: 40 mK at 1 ms	